

What is claimed is:

1 1. A fluid quick connector comprising:
 2 a connector housing configured to mate with an endform;
 3 an electrical contact mounted in the connector housing for establishing
 4 electrical contact between an outer surface of endform and the connector housing.

1 2. The fluid quick connector of claim 1 wherein the electrical
 2 contact comprises:
 3 an electrically conductive annular body having an outer diameter
 4 disposing the body in contact with an inner diameter of the bore in the connector
 5 housing; and
 6 a radially inward extending contact member carried on the electrical
 7 contact adapted to engage the male endform where the endform is mounted in the
 8 bore in the connector housing.

1 3. The fluid quick connector of claim 2 wherein:
 2 the at least one projection comprises a plurality of circumferentially
 3 spaced projections.

1 4. The fluid quick connector of claim 3 wherein:
 2 the plurality of circumferentially spaced projections comprises at least
 3 three projections.

1 5. The fluid quick connector of claim 3 wherein the plurality of
 2 projections are equi-circumferentially spaced about an inner surface of the annual
 3 body.

1 6. The fluid quick connector of claim 1 wherein the electrical
 2 contact comprises:

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3 an electrically conductive top hat mountable in a bore of the connector
4 housing for holding a seal element in the bore, the top hat having an inner bore
5 receiving the endform; and

6 the contact member being at least one radially inward extending
7 projection carried on the top hat adapted to engage the endform when the endform is
8 inserted into the bore in the connector housing.

1 7. The fluid quick connector of claim 6 wherein:
2 the at least one projection comprises a plurality of circumferentially
3 spaced projections.

1 8. The fluid quick connector of claim 7 wherein:
2 the plurality of circumferentially spaced projections comprises at least
3 three projections.

1 9. The fluid quick connector of claim 7 wherein the plurality of
2 projections are equi-circumferentially spaced about an inner surface of the top hat.

1 10. The fluid quick connector of claim 1 wherein the electrical
2 contact comprises:
3 a spacer mounted in the bore about the endform; and
4 the contact member being at least one radially inward extending
5 projection carried on the spacer adapted to engage the endform when the endform is
6 inserted into the bore in the connector housing.

1 11. The fluid quick connector of claim 1 further comprising:
2 the connector housing and the endform being electrically conductive.

1 12. A fluid quick connector comprising:
2 a connector housing configured to mate with an endform;

3 a spacer mounted in a through bore of the connector housing about the
4 male endform to the connector housing; and
5 an electrical contact member carried on the spacer for establishing
6 electrical contact between the endform and the connector body.

1 13. The fluid quick connector of claim 11 wherein the contact
2 member comprises:
3 the spacer formed of an electrically conductive material; and
4 at least one radially inward projection carried on the spacer adapted to
5 engage the endform where the endform is mounted in the bore in the connector
6 housing.

1 14. The fluid quick connector of claim 13 wherein:
2 the at least one projection of the contact member comprises a plurality
3 of circumferentially spaced projections.

1 15. The fluid quick connector of claim 13 wherein:
2 the plurality of circumferentially spaced projections comprises at least
3 three projections.

1 16. A fluid quick connector comprising:
2 the connector housing and the endform being electrically conductive;
3 a top hat mountable in a bore of the connector housing for holding the a
4 seal element in the bore, the top hat receiving the endform therethrough, the top hat
5 formed of an electrically conductive material; and
6 the electrical contact member being at least one radially inward
7 extending projection carried on the top hat adapted to engage the endform when the
8 endform is inserted into the bore in the connector housing.

1 17. The fluid quick connector of claim 16 wherein:
2 the at least one projection comprises a plurality of circumferentially
3 spaced projections.

1 18. The fluid quick connector of claim 16 wherein:
2 the plurality of projections comprises three circumferentially spaced
3 projections.

1 19. A fluid quick connector comprising:
2 a connector housing configured to mate with an endform along a first
3 axis;
4 the connector housing and the endform being electrically conductive;
5 a spacer and a top hat disposed in a through bore in the connector
6 housing about the endform; and
7 an electrical contact member carried on one of the spacer and the top
8 hat for establishing electrical contact between the endform and the connector body.

1 20. The fluid quick connector of claim 19 further comprising:
2 at least one of the spacer and the top hat formed of an electrically
3 conductive material; and
4 the electrical contact member being a radially inward projection carried
5 on one of the spacer and the top hat adapted to engage the endform where the male
6 endform is mounted in the bore in the connector housing.

1 21. The fluid quick connector of claim 20 wherein:
2 the at least one projection comprises a plurality of circumferentially
3 spaced projections.

1 22. The fluid quick connector of claim 21 wherein:

2 the plurality of circumferentially spaced projections comprises at least
3 three projections.

1 23. An electrical contact for a fluid quick connector having a
2 connector housing configured to mate with an endform, the electrical contact
3 comprising:
4 an electrically conductive body adapted to be disposed in a bore of a
5 connector housing about an endform inserted into the housing to establish electrical
6 contact between the endform and the connector housing.

1 24. The electrical contact of claim 23 further comprising:
2 the electrically conductive body having an outer diameter disposing the
3 body in contact with an inner diameter of the bore in the connector housing; and
4 At least one radially extending contact carried on the body adapted to
5 engage the endform where the endform is mounted in the bore in the connector
6 housing.

1 25. The electrical contact of claim 24 wherein:
2 the at least one contact projection comprises a plurality of
3 circumferentially spaced contact projections.

1 26. The electrical contact of claim 25 wherein:
2 the plurality of circumferentially spaced contact projections comprises
3 at least three contact projections.

1 27. The electrical contact of claim 25 wherein the plurality of
2 contact projections are equi-circumferentially spaced about an inner surface of the
3 contact body.